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CLAIMS:

Please see a listing of the claims as follows:

1. (Previously Amended) In a communication network with user access via a plurality of data processor controlled interactive display terminals for sending and receiving broadcasting packets, an electronic document distribution system for routing broadcasting packets from a sending server to a receiving server comprising:
  - means for temporarily storing a broadcasting payload inside a broadcasting router as a coded header by temporarily coding the broadcasting payload to a set of symbols;
  - means for temporarily stripping the broadcasting payload from the broadcasting packet;
  - means for temporarily replacing the stripped broadcasting payload with a set of coded symbols in the broadcasting packet;
  - means for adding the coded symbols to a header of the broadcasting packet;
  - means for transmitting the coded header of the broadcasting packet to the receiving server via the broadcasting router;
  - means for transmitting the broadcasting payload to its coded header in the receiving server via the broadcasting router; and
  - means for converting the coded set of symbols of the broadcasting payload from its coded format to form a full broadcasting packet in the receiving server.
2. (Previously Amended) The system of claim 1 further comprising means in the document distribution system for reducing the broadcasting payload of the broadcasting packet to a coded header of the broadcasting packet.
3. (Previously Amended) The system of claim 2 further comprising:
  - means for receiving the coded header of the broadcasting packet and patching the broadcasting payload that corresponds to the set of coded symbols in the coded header from storage; and

- means for relaying the broadcasting payload to a destination router according to its address to form the full broadcasting packet.
4. (Previously Amended) The system of claim 3 wherein said document distribution system is an electronic mail distribution system associated with electronic mail sources.
5. (Previously Amended) The system of claim 3 wherein:
- said communication network is a distributed network;
  - said broadcasting payloads are digitized packet; and
  - said network distribution system is a network server system.
6. (Previously Amended) In a communication network with user access via a plurality of data processor controlled interactive display terminals for sending and receiving broadcasting packets, a method of distributing transmitted electronic documents for routing broadcasting packets from a sending server to a receiving server including the steps of:
- storing a broadcasting payload inside a broadcasting router as a coded header by coding the broadcasting payload to a set of symbols temporarily;
  - stripping the broadcasting payload temporarily from the broadcasting packet;
  - replacing the broadcasting payload temporarily with a set of coded symbols in the broadcasting packet;
  - adding the coded symbol to a header of the broadcasting packet;
  - transmitting a coded header of the broadcasting packet to the receiving server via the broadcasting router;
  - transmitting the broadcasting payload to its coded header in the receiving server via the broadcasting router; and
  - converting the coded set of symbols of the broadcasting payload from its coded format to form a full broadcasting packet in the receiving server.
7. (Previously Amended) The method of distributing electronic documents of claim 6 further including the step of reducing the broadcasting payload of the broadcasting packet to a coded header of the broadcasting packet.

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8. (Previously Amended) The method of distributing electronic documents of claim 7 further including the steps of:
- receiving the coded header of the broadcasting packet and patching the broadcasting payload that corresponds to the set of coded symbols in the coded header from storage; and
  - relaying the broadcasting payload to a destination router according to its address to form the full broadcasting packet.
9. (Original) The method of distributing electronic documents of claim 8 wherein said document distribution system is an electronic mail distribution system associated with electronic mail sources.
10. (Previously Amended) The method of distributing electronic documents of claim 8 wherein:
- said communication network is a distributed network;
  - said broadcasting payloads are digitized packets;
  - and
  - said network distribution system is a network server system.
11. (Previously Amended) A computer readable medium storing a computer program which when executed performs the implementation for distributing electronic documents in a communication network with user access via a plurality of data processor controlled interactive display terminals for sending and receiving broadcasting packets, said program for routing broadcasting packets from a sending server to a receiving server comprising:
- means for temporarily storing a broadcasting payload inside a broadcasting router as a coded header by temporarily coding a broadcasting payload to a set of symbols;
  - means for temporarily stripping the broadcasting payload from the broadcasting packet;
  - means for temporarily replacing the stripped broadcasting payload with a set of coded symbols in the broadcasting packet;
  - means for adding the coded symbols to a header of the broadcasting packet;

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means for transmitting the coded header of the broadcasting packet to the receiving server via the broadcasting router;  
transmitting the broadcasting payload to its coded header in the receiving server via the broadcasting router; and  
means for converting the coded set of symbols of the broadcasting payload from its coded format to form a full broadcasting packet in the receiving server.

12. (Previously Amended) The computer readable medium of claim 11 further including means in the document distribution system for reducing the broadcasting payload of the broadcasting packet to a coded header of the broadcasting packet.

13. (Previously Amended) The computer readable medium of claim 12 further including:

means for receiving the coded header of the broadcasting packet and patching the broadcasting payload that corresponds to the set of coded symbols in the coded header from storage; and  
means for relaying the broadcasting payload to a destination router according to its address to form the full broadcasting packet.

14. (Previously Amended) The computer readable medium of claim 13 wherein said document distribution system is an electronic mail distribution system associated with electronic mail sources.

15. (Previously Amended) The computer readable medium of claim 13 wherein:

said communication network is a distributed network;  
said broadcasting payloads are digitized packets;  
and  
said network distribution system is a network server system.